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Payton

PATENT
BTG-1002US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
STUMBORG, et al.

Serial No.: 09/137,084

Filed: August 20, 1998

Title: ELECTRONIC DEVICES WITH
BARIUM BARRIER FILM AND
PROCESS FOR MAKING SAME

Group Art Unit: 2811

Examiner: H. Vu

Docket No. 79329

TECHNOLOGY CENTER 2800
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AMENDMENT AFTER FINAL REJECTION

Assistant Commissioner For Patents
Washington, D.C. 20231

Sir:

Responsive to the Final Rejection dated January 30, 2001, please amend the
above-identified application as set forth below.

IN THE CLAIMS

Subt E

Please amend claims 2 and 23 to read as follows:

2. (Four Times Amended) A semiconductor comprising:
a semiconductor substrate material having a surface;
a barrier film directly on said semiconductor substrate surface, said barrier film
having a layer comprising elemental barium atoms on said surface;
a conductor on said barrier film, said conductor having a tendency to diffuse into
said semiconductor substrate material if in direct contact therewith; and wherein said
elemental barium atoms are between said conductor and said semiconductor substrate
such that said layer serves as a barrier, inhibiting diffusion of the conductor into the
semiconductor substrate material.

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